bio-protocol Preprint

Not Peer Reviewed
Ask a question online

# Open-field test

Byung Tae Choi Da Hee Jung

Updated date: Apr 16, 2021

An abbreviated version of this protocol was published in eLIFE in Sep 2020

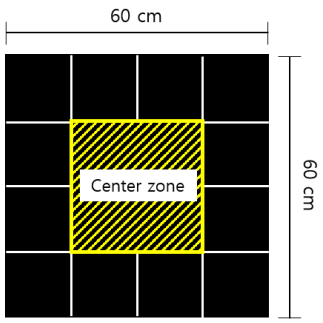
Therapeutic effects of anodal transcranial direct current stimulation in a rat model of ADHD

DOI: 10.7554/eLife.56359

## Detailed protocol

### Open-field test

1. This take was used a black square box (60 × 60 × 30 cm3) including a center (30 × 30 cm2).




Note: Behavior was measured in a quiet and low-light intensity (<50 lx) room.
2. Rat was placed in a black square box for 5 min to habituation.
Note: When placing the rat in the box, place it in the center to begin exploring (staring point=center zone).
3. After habituation, the measurement has started the box for 15 min.
4. Behavior was video-recorded for later analysis using a SMART v3.0 video tracking system (Panlab, S.L.U., Barcelona, Spain).
5. We analyzed the total distance (cm), velocity (cm/s), and resting times in the center zone (s).

## Related files

open field test.docx

**How to cite:**(Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Choi, B. and Jung, D. (2021). Open-field test. Bio-protocol Preprint. bio-protocol.org/prep1019.
2. Jung, D. H., Ahn, S. M., Pak, M. E., Lee, H. J., Jung, Y. J., Kim, K. B., Shin, Y., Shin, H. K. and Choi, B. T.(2020). Therapeutic effects of anodal transcranial direct current stimulation in a rat model of ADHD. eLIFE. DOI: 10.7554/eLife.56359